

What is claimed is:

1. ~~An image processing apparatus comprising:~~

a memory for storing image data;

a designating means for designating the image size;

5 and

a compression system which compress the image data by a compression method corresponding to the image size designated with the designating means and send the compressed image data to the memory.

2. An apparatus according to claim 1, wherein said compression system include a first compression method which allows image editing in a compressed state and a second compression method which does not allow image editing in a compressed state.

3. An apparatus according to claim 2, wherein said first compression method is fixed-length compression method and said second compression method is variable-length compression method.

4. An apparatus according to claim 2, wherein said compression system selects a compression method for accomplishing a second compression method after a first compression method when a designated image size is larger than a specific size, and selects only a first compression method when a designated image size is smaller than the specific size.

5. ~~An apparatus according to claim 1, wherein said~~  
image data are image data of four colors yellow, magenta,  
cyan, and black, and both compression and storage to  
memory are executed in parallel for each color.

5 6. An apparatus according to claim 1 further  
comprising:

an expansion system which expand the image data  
stored in the memory by a expansion method corresponding  
to the compression method which  
10 image size designated with the designating means and send  
the compressed image data to the memory.

7. An image processing apparatus comprising:

a memory for storing image data;  
a designating means for designating the image size;  
15 a compression system which includes a first  
compression method for first compressing the image data  
and a second compression method for second compressing  
the image data compressed by the first compression  
method; and

20 a controller which controls practice of the second  
compression method corresponding to the image size  
designated with the designating means.

8. An apparatus according to claim 7, wherein said  
first compression method is fixed-length compression

~~method and said second compression method is variable~~  
length compression method.

9. An apparatus according to claim 7 further  
comprising:

5 a plural image forming unit which forms an image  
based on the image data stored in the memory.

10. An apparatus according to claim 9, wherein said  
memory stores the image data for delaying a output timing  
of the image data to the plural image forming unit.

10 11. An apparatus according to claim 7 further  
comprising:

a paper supply unit which supplies sheet for image  
forming.

15 12. An apparatus according to claim 11, wherein said  
controller distinguish whether the paper supply unit will  
be able to supply a sheet according to the image size in  
a lengthwise direction and horizontal direction.

20 13. A method to image processing apparatus having a  
memory for storing image data, the method comprising the  
steps of:

designating the image size of the image data;  
compressing the image data based on the designation  
of the designating step; and  
storing the image data to the memory.

14. A method according to claim 13, wherein said  
compressing step includes a first compression method for  
first compressing the image data and a second compression  
method for second compressing the image data compressed  
by the first compression method.

15. A method according to claim 13, wherein said  
compressing step includes fixed-length compression method  
and variable-length compression method.

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